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ABSTRACT

This issue of "Social Sciences in Forestry" provides an annotated bibliographic listing of 682 current references arranged according to four major areas of forestry: (1) social sciences applications to forestry at large (containing citations on resources, history, legislation, policy, planning, appraisal and valuation, investment and finance, taxation, subsidization, agroforestry, economics, education, research, technology transfer, and environmental concerns); (2) social sciences applications to forest management (with references on multiple use management, ownership of public and private lands, labor, and protection); (3) production of forest goods and services (addressing areas such as outdoor recreation, wilderness and range management, urban forestry, watershed management, fish and wildlife, and wood production); and (4) social sciences applications to forest industries (focusing on wood-using industries and other forest industries, wood energy, marketing and trade, and transportation). A total of 40 subheadings are divided among the major areas. An author index is provided. (TW)

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SOCIAL SCIENCES in FORESTRY

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A Current Selected Bibliography and Index

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PREFACE

References submitted by foreign coorperators are acknowledged by the addition of the cooperator's initials directly following the annotation. We welcome contributions of either references to publications or the publications themselves. We would also welcome additional foreign cooperators, particularly from countries not represented on the title page of this issue. Anyone interested in serving as a cooperator should write to us at the University of Minnesota Forestry Library, 1530 North Cleveland Avenue, St. Paul, MN 55108.

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We gratefully acknowledge the contributions of three people who have helped to bring this issue to press: Laura Brinkmeier and Heidi Peissig, data entry operators, and Marian Eriksson, programmer.

Jean Albrecht
Patricia Rodkewich

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SOCIAL SCIENCES APPLIED TO FORESTRY AT LARGE

GENERAL PUBLICATIONS

593 Brady, N.C., 1987. World forests-role in social and economic development. In: Society of American Foresters. Forests, the world, and the profession. pp. 13-20.

594 Brennan, A., 1986. The economics of western forests. In: Summaries of the proceedings of the 1986 Western Forestry Conference. Portland, Western Forestry and Conservation Association. p. 46.

Abstract only.

595 Buongiorno, J. and Gilless, J.K., 1987. Forest management and economics: A primer in quantitative methods. New York, Macmillan. 285 pp.

596 Davidson, J., Pong, T.Y., and Bijleveld, M., editors, 1985. The future of tropical rain forests in South East Asia. Gland, Switzerland, International Union for Conservation of Nature and Natural Resources, Commission on Ecology Papers no. 10. 127 pp. (Reprinted from the Environmentalist vol. 5, suppl. 10, 1985.)

Proceedings of a symposium organized by the Forest Research Institute, Kepong, Malaysia and the IUCN Commission on Ecology held in Kepong, Malaysia, Sept. 1-2, 1983. Selected papers are indexed in this issue.

597 Galloway, R.L., Greet, R.M., McGowan, D.W.J., and Walker, J.D., cochairmen, 1987. Primeval improvement: The new forestry age. Great Lakes Forestry Centre, COJFRC Symposium Proceedings O-P-15. 134 pp.

Selected papers are indexed in this issue.

598 Humphries, W.C., Jr. and Thompson, R., 1986. FORESCO II - The application of economic modelling. In: Mason, W.L. and Muetzelfeldt, R., eds. Computers in forestry. pp. 109-119.

This paper has 3 aims: (1) to provide a general background to forestry in the southern pine region of the U.S.; (2) to outline ownership patterns, forest cover types, stocking conditions, timber markets, and general schemes of management; and (3) to show the importance of the computer in solving some typical economic problems posed in forest management.

599 Kaminski, E., 1986. [World tendencies of changes in the utilization of forests in the northern temperate zone.] Sylwan 130(10):1-14.

In Polish with English summary. The author discusses the forest resources of the north temperate zone, wood supply, demand and utilization. He also discusses threats to the forest.

600 Konohira, Y., 1986. Overview of forests in Washington State. Shinshu Daigaku Nogakubu Kiyo 23:111-132.

601 Laurow, Z., 1986. [Tendencies of changes in the utilization of tropical and subtropical high forests.] Sylwan 130(10):15-24.
In Polish with English summary. The author discusses the negative impacts and reasons behind the intensive utilization of the tropical forests, especially during the last 20 years.

602 Mason, W.L. and Muetzelfeldt, R., editors, 1986. Computers in forestry. Edinburgh, Institute of Chartered Foresters. 256 pp.
Proceedings of a Conference on the Application of Computers to the Management and Administration of Forests, the Harvesting and Marketing of Timber and to Forestry Research, Edinburgh, 1984. Selected articles are indexed in this issue.

603 Melamed-Gonzalez, R. and Giasson, L., compilers, 1987. A directory: NGOs in the forestry sector. 2nd Africa edition. New York, International Tree Project Clearinghouse, United Nations Non-Governmental Liaison Service. 256 pp. + appendices.
"This directory has been written to provide information for African NGOs either currently doing or planning to do forestry-related development." (p. xi)

604 Miller, F., 1987. The economic revolution in forestry. In: Galloway, R.L. et al. Primeval improvement. pp.102-107.
The author concludes that today's foresters must be "forester-economists".

605 Norway, Central Bureau of Statistics, 1986. Forestry statistics 1985. Oslo, Statistisk Sentralbyra. 98 pp.
Preface and captions in Norwegian and English. Includes statistics on forest area, production, labor force, hunting, prices, roads, etc.

606 Paschalis, P., 1986. [Some problems and tendencies of changes in the utilization of forests in the dry zone.] Sylwan 130(10):25-35.
In Polish with English summary. The greatest demand for forests in the dry zones is for fuelwood.

607 Reid, R.G., 1985. USFS and Co. Journal of Forestry 83(1):24-27.
The author looks at what might happen if the Forest Service were to become a profit-making organization.

608 Robertson, D. and White, J.L., coord. and editor, 1987. Eastern hardwoods: the resource, the industry, and the markets. Madison, Wis., Forest Products Research Society, Proceedings 47345. 169 pp.
Papers presented at a conference sponsored by the Forest Products Research Society in cooperation with the Hardwood Research Council and held in Harrisburg, PA, Sept. 9-11, 1985. Selected papers are indexed in this issue.

609 Society of American Foresters, 1985. Defining commercial timberland: Position statement of the Society of American Foresters and report by the SAF Task Force on Definition of

Commercial Timberland. Bethesda, MD, Society of American Foresters, SAF 85-06. 29 pp.

The SAF "recommends that the Forest Service drop the adjective 'commercial' from its designation of the land base now called commercial timberland. The land base should be called 'timberland'." (p.1)

610 Society of American Foresters, 1987. Forests, the world, and the profession: Proceedings of the 1986 Society of American Foresters National Convention, Birmingham, Alabama, October 5-8. Bethesda, MD, Society of American Foresters, SAF Publication 87.02. 352 pp.

Selected papers are indexed in this issue.

611 Stoddard, C.H. and Stoddard, G.M., 1987. Essentials of forestry practice. 4th ed. New York, Wiley. 407 pp.

Includes chapters on "Forest management and timber production finance", "Processing and marketing forest products", and "Organization and adminstration of forestry programs".

612 Tsay, T.B., 1987. Forestry in Japan. Forestry Chronicle 63:97-102.

Discusses forest resources, forest products industries, forestry education and research.

613 U.S. Forest Service, 1986. Forest resources economics research publications. U.S. Forest Service, Washington Office. 29 pp.

A list of publications dealing with renewable resources economics research and forest inventory and analysis research for fiscal year 1985.

614 Walt, H.R., 1986. Of forestry, tree spikers, and the dinosaur. University of California, Berkeley, College of Natural Resources, Dept. of Forestry and Resource Management, S.J. Hall Lectureship in Industrial Forestry, Nov. 18, 1986. 8 pp.

A discussion of the future of forestry in California.

615 Watt, G.R., 1986. Economic modelling - a way to improve decision making. In: Mason, W.L. and Muetzelfeldt, R., eds. Computers in forestry. pp. 103-108.

"The aim of this paper is to consider what is meant by economic modelling, the purpose of building economic models, the different types of models that have already been developed, and how they can help in the forest sector."

616 Zabielski, S., 1986. [Forest economy of Algeria.] Sylwan 130(9):65-74.

In Polish.

FOREST RESOURCES: REGIONAL, NATIONAL, INTERNATIONAL

617 Alig, R.J., Knight, H.A., and Birdsey, R.A., 1986. Recent changes in southern forest ownerships and cover types. U.S. Forest Service, Research Paper SE-260. 10 pp.

618 Bassett, P.M. and Oswald, D.D., 1983. Timber resource statistics for eastern Washington. U.S. Forest Service, Resource Bulletin PNW-104. 32 pp.

619 Beltz, R.C., Leister, R., and Smith, W.R., 1987. Midcycle survey of Arkansas' forest resources. U.S. Forest Service, Resource Bulletin SO-123. 19 pp.

620 Birdsey, R.A. and Weaver, P.L., 1987. Forest area trends in Puerto Rico. U.S. Forest Service, Research Note SO-331. 5 pp.

621 Birdsey, R.A., 1987. Domestic trends in timber resources. In: White, J.L., ed. Managing and marketing the changing timber resource. p.9-14.

622 Clark, F.B., 1986. The hardwood resource. In: Roberston, D. and White, J.L. Eastern hardwoods: the resource, the industry, and the markets. pp. 13-18.

623 Froude, V., Gibson, A., and Carlin, B., comp., 1985. Indigenous forests of New Zealand: Environmental issues and options. Wellington, New Zealand, Commission for the Environment, Issues and Options Paper 1985/1. 40 pp. + app.

The objectives of the paper are: (1) to assess the present status of New Zealand's indigenous forests; (2) to assess the effect of public attitudes on management decisions; (3) to analyze existing administrative and legislative structure affecting all indigenous forests; and (4) to identify possible options for improved management of indigenous forests.

624 Gedney, D.R., Bassett, P.M., and Mei, M.A., 1987. Timber resource statistics for non-federal forest land in west-central Oregon. U.S. Forest Service, Resource Bulletin PNW-RB-143. 26 pp.

625 Golitz, M.F., 1987. Forest area and timber volume changes in south-central Indiana. Purdue University, Dept. of Forestry and Natural Resources, Bulletin 188:19-23.

626 Hansen, M.H., 1986. Forest area in Illinois, 1985. U.S. Forest Service, Research Note NC-340. 5 pp.

627 Hees, W.W.S. van and LaBau, V.J., 1984. Timber resource statistics for the Yakutat inventory unit, Alaska, 1975. U.S. Forest Service, Resource Bulletin PNW-105. 31 pp.

628 Hees, W.W.S. van and LaBau, V.J., 1983. Timber resource statistics for the Prince of Wales inventory unit, Alaska,

1973. U.S. Forest Service, Resource Bulletin PNW-103. 30 pp.

629 Hees, W.W.S. van and LaBau, V.J., 1983. Timber resource statistics for the Petersburg/Wrangell inventory unit, Alaska, 1972. U.S. Forest Service, Resource Bulletin PNW-102. 36 pp.

630 Hees, W.W.S. van and LaBau, V.J., 1983. Timber resource statistics for the Sitka inventory unit, Alaska, 1971. U.S. Forest Service, Resource Bulletin PNW-101. 35 pp.

631 Hees, W.W.S. van, 1984. Timber resource statistics for the Tanana inventory unit, Alaska, 1971-75. U.S. Forest Service, Resource Bulletin PNW-109. 36 pp.

632 Hegg, K.M., 1983. Timber resource statistics for the Upper Tanana block, Tanana inventory unit, Alaska, 1974. U.S. Forest Service, Resource Bulletin PNW-100. 34 pp.

633 Hines, F.D. and Bertelson, D.F., 1987. Forest statistics for East Oklahoma counties-1986. U.S. Forest Service, Resource Bulletin SO-121. 57 pp.

634 Kelly, J.F. and Hines, F.D., 1987. Forest statistics for South Mississippi counties-1987. U.S. Forest Service, Resource Bulletin SO-124. 34 pp.

635 Knight, H.A., 1987. A southwide perspective on the pine plantation resource. In: Society of American Foresters. Forests, the world, and the profession. pp. 63-66.

"By the year 2000, acreage in pine plantations will exceed the acreage in natural pine stands in the South." (p. 63)

636 Knowland, W., 1985. Rates of change of forest cover in South East Asia and implications for national economies. In: Davidson, J. et al., eds. The future of tropical rain forests in South East Asia. pp. 27-35.

Discusses the link between deforestation and economic development in South East Asia.

637 Kuusela, K., 1987. Forest production in boreal countries. International Union of Societies of Foresters, Newsletter 25:5-7.

Includes a table "Forest resources of Alaska and boreal countries and their share of the world totals".

638 Lang, L.L. and Bertelson, D.F., 1987. Forest statistics for East Texas counties - 1986. U.S. Forest Service, Resource Bulletin SO-118. 66 pp.

Tabulates forest resource information from a new inventory of East Texas counties.

639 Lanly, J.P., 1985. Forest resources of South East Asia: Results from the FAO/UNEP Tropical Forest Resources Assessment Project. In: Davidson, J. et al., eds. The future of tropical rain forests in South East Asia. pp. 12-16.

640 Lines, R., 1987. Forestry in the Faroe Islands. Scottish Forestry 41:102-114.

641 Locke, G.M.L., 1987. Census of woodlands and trees 1979-82. Forestry Commission Bulletin no. 63. 123 pp.

642 Maine Critical Areas Program, 1983. Natural old-growth forest stands in Maine and its relevance to the Critical Areas Program. Maine State Planning Office, Planning Report no.79. 254 pp. + 2 pp. add.

643 Mayer, K.E. et al., 1986. Status of the hardwood resource of California: A report to the Board of Forestry. Revised Sept. 6, 1986. 126 pp.

Co-authors are: P.C. Passof, C. Bolsinger, W.E. Grenfell, Jr., and H. Slack. No publishing information given.

644 McWilliams, W.H., Sheffield, R.M., Hansen, M.H., and Birch, T.W., 1986. The shortleaf resource. In: Symposium on the Shortleaf Pine Ecosystem, Little Rock, 1986. University of Arkansas, Cooperative Extension Service. pp. 9-24.

645 Raile, G.K. 1986. Nebraska's second forest inventory. U.S. Forest Service, Resource Bulletin NC-96. 87 pp.

Text and statistics are presented on area, volume, growth, mortality, removals, utilization, biomass, and future timber supply.

646 Setzer, T.S., 1987. Timber resource statistics for the Porcupine inventory unit of Alaska, 1978. U.S. Forest Service, Resource Bulletin PNW-RB-141. 32 pp.

647 Smith, W.B., 1986. Biomass yields for small trees, shrubs, and herbs in northern Lake States forests. U.S. Forest Service, Research Paper NC-277. 11 pp.

648 Tansey, J.B., 1987. Forest statistics for the Northern Coastal Plain of South Carolina, 1986. U.S. Forest Service, Resource Bulletin SE-91. 54 pp.

649 Tomas, J.G.F., 1986. [A general description of the forests of Spain.] Revue Forestiere Francaise 38:403-411.

In French.

650 Winterberger, K.C., 1983. Timber resource statistics for the Wood-Salcha block, Tanana inventory unit, Alaska,1975. U.S. Forest Service, Resource Bulletin PNW-107. 34 pp.

HISTORY

651 Glover, J.M., 1986. A wilderness original: the life of Bob Marshall. Seattle, The Mountaineers. 323 pp.

652 Gold, W., 1985. Logging as it was: A pictorial history of logging on Vancouver Island. Victoria, B.C., Morriss Publishing. 255 pp.

653 Johnson, R.S., 1986. Forests of Nova Scotia: A history. Halifax, Nova Scotia Dept. of Lands and Forests; Four East Publications. 407 pp.

654 Murphy, P.J., 1985. History of forest and prairie fire control policy in Alberta. Edmonton, Alberta Energy and Natural Resources. 408 pp.

655 Robertson, B.R., 1986. Sawpower: Making lumber in the sawmills of Nova Scotia. Halifax, Nimbus Publishing Ltd; Nova Scotia Museum. 244 pp. + map.

656 Rubner, H., 1987. [The historical methods on the field of forest economy and the dilemma of German forest history.] Forstarchiv 58:72-74.

In German with English summary.

657 Sagl, W., 1986. [Hubert Kuhn - a milestone on forest economics at the Universitat fur Bodenkultur in Vienna.] Centralblatt fur das Gesamte Forstwesen 103:125-129.

In German with English summary. A report on the life and work of Hubert Kuhn, "the first professor for modern forest economics in Austria" on the occasion of his 90th birthday.

658 U.S. Forest Service, 1984. Blacks in the forest industry. U.S. Forest Service, Northeastern Area State and Private Forestry. [11] pp.

A reprinting of two articles from the Journal of Forest History 24:142-151, 1980, entitled: "Black pioneers in the Michigan lumber industry" and "The Goodridge brothers: Lumbering's photographic historians".

659 Zaslowsky, D. and Wilderness Society, 1986. These American lands: Parks, wilderness, and the public lands. New York, Henry Holt. 404 pp.

LEGISLATION

660 Baynard, E.C., III, 1986. Public land law and procedure. New York, Wiley. 506 pp.

Includes sections on: "Origins and development of public land law", "Management of the public lands", "Land use planning, wilderness review, and designation", "Fees and charges", "Grazing and range management on public lands", etc.

661 Beuter, J.H., 1987. When does the regulation of private forest land become taking? Renewable Resources Journal 5(2):15-22.

Begins with a discussion of the philosophical and legal foundations for our views about property rights and ends with a review of forest practices regulation in California and Oregon.

662 Cubbage, F.W. and Raney, K.P., 1987. County logging and tree protection ordinances in Georgia. Southern Journal of Applied Forestry 11:76-82.

This paper reviews local ordinances that regulate logging activites in Georgia.

POLICY

663 Cromwell, D.A., 1984. Strategies for dealing with the urban/forest interface: the recent California experience. In: Bradley, G.A., ed. Land use and forest resources in a changing environment. pp. 151-162.

664 Dearborn, K., 1984. A new zoning strategy for forest lands. In: Bradley, G.A., ed. Land use and forest resources in a changing environment. pp. 180-188.

665 Denne, T., Brown, M.J.D., and Abel, J.A., 1986. Forestry: Britain's growing resource. A review of forestry policies, past and present, and options for the future. London, UK Centre for Economic and Environmental Development. 133 pp.

666 Dunster, J.A., 1987. Forestry conflicts in Canada. Ambio 16(1):59-63.

All of the forestry land use and land management conflicts discussed in this paper occur on provincial Crown lands. (JAD)

667 Dunster, J.A., 1986. Forestry conflicts in Great Britain: The winds of change. University of Waterloo, Faculty of Environmental Studies, School of Urban and Regional Planning, Working Paper no. 20. 35 pp.

This paper provides a comprehensive review of the current controversies in British forestry, including planning control, landscape preservation, farming, broadleaves preservation, conservation, water quality and quantity, the use of chemicals, and conflict resolution strategies. (JAD)

668 Hall, O.F., 1985. Major policy issues confronting forestry in the United States. Allgemeine Forst-und Jagdzeitung 156:169-173.
In English.

669 Krott, M., 1987. [Press coverage of the policy issue "Waldsterben".] Forstarchiv 58:6-10.
A critique of Austrian newspaper coverage of the Waldsterben issue from 1980-1985. No other forest policy issue attracted as much attention in the print media as did the Waldsterben issue.

670 Laarman, J.G., 1987. Forest policy and foreign policy: the politics of trade and aid in a sensitive world. In: Society of American Foresters. Forests, the world, and the profession. pp. 51-55.

671 Leman, C.K., 1985. A forest of institutions: Patterns of choice on North American timberlands. In: Feldman, E.J. and Goldberg, M., eds. Land rites and wrongs: The management, regulation, and use of land in Canada and the United States. Cambridge, MA, O, G, & H Publishing, Inc. (In press) 73 pp.

672 Lok Sabha Secretariat, 1985. National forest policy. New Delhi, Lok Sabha Secretariat. 77 pp.
National forest policy in India.

673 Mohai, P., 1987. Public participation and natural resource decision-making: The case of the RARE II decisions. Natural Resources Journal 27:123-155.
"The role of public participation on Forest Service decision-making is examined from contrasting perspectives presented in recent studies...." (p.123)

674 Revilla, A.V., Jr., 1984. Strategies for viable forestry program and the need to reorganize the BFD. Philippine Lumberman 30(5):6-9, 13.
The second of a two-part series on the need for reorganizing the Philippine Bureau of Forest Development.

675 Ruprich, J., 1984. [Principles of decision taking under uncertainty.] Acta Universitatis Agriculturae (Brno), Series C (Facultas Silviculturae) 53:205-215.
In Czech with English, Russian, and German summaries. (JR)

676 Webster, H.H., 1987. Public input in forest resource management. Renewable Resources Journal 5(2):12-14.

PLANNING

677 Adeyoju, S.K., 1984. Land use: Striking a balance in planning. Philippine Lumberman 30(9):20-21, 23, 25.
Reprinted from Unasylva vol. 35 no. 142.

678 Alston, R.M. and Iverson, D.C., 1987. The road from Timber RAM to FORPLAN: How far have we traveled? Journal of Foresty 85(6):43-49.
The authors question whether "the new generation of computer models for the planning process meet the Forest Service's needs?"

679 Amster, G.J., 1984. Land use planning at the urban/forest interface. In: Bradley, G.A., ed. Land use and forest resources in a changing environment. pp. 69-73.

680 Dreszer, A., 1986. A perspective on Appalachian National Forest timber management planning. American Pulpwood Association, Technical Paper 86-P-2. 5 pp.
Presented at the APA Appalachian Technical Division Fall Meeting, Oct. 2, 1985 in Chattanooga, Tennessee.

681 Eckmullner, O., 1986. [Austrian forestry in the "Green Report" and the "Green Plan".] Centralblatt fur das Gesamte Forstwesen 103:187-210.
In German with English summary. Reports on the effect of these two instruments of agrarian and forest policy with regard to forestry.

682 Ek, A.R., Rose, D.W., and Blinn, C.R., 1987. Models for managing timber. In: White, J.L., ed. Managing and marketing the changing timber resource. p.91-94.
Discusses various "planning models that have been developed and are available to address various individual aspects of forest management."

683 Fedkiw, J., 1981. 1980 RPA program decision process. Hanover, NH, Dartmouth College, Thayer School of Engineering, Resource Policy Center, DSD no. 381. 27 pp.

684 Filius, A.M., 1986. Forestry strategy and land use policy in areas with high population pressure. Forest Ecology and Management 15:181-193.
"It is concluded that forest planning, in areas where social forestry could be developed, must include a study of state-owned and private land as well as forest land and non-forest land." (p.181)

685 Florida Division of Forestry, 1983. The Florida Division of Forestry direction for the '80's: A state forestry program plan. Florida Dept. of Agriculture and Consumer Services, Division of Forestry. [43] pp.
Undated; probable date, 1983.

686 Gadow, K. von, 1986. On the use of unreplicated pairing in forestry planning. South African Forestry Journal 139:15-20.

"Unreplicated pairing... can be a realistic alternative for obtaining foresters preferences. Examples are presented to demonstrate the method." (p. 15)

687 Guertin, D.P., Brooks, K.N., and Ffolliott, P.F., 1987. Multiple resource information and modeling: A survey of needs in the Lake States. Northern Journal of Applied Forestry 4:81-84.

"Multiple-resource models for Lake States conditions are needed by planners at different levels in both public and private sectors." (p.84)

688 Haeruman, H., 1985. Future of tropical forests in Indonesia, resolving land resources conflicts. In: Davidson, J. et al., eds. The future of tropical rain forests in South East Asia. pp. 111-114.

"The continuing depletion of tropical forests in Indonesia is described. Effort is being concentrated on conserving some remaining forest as protection forest and nature reserves, and converting production forests into plantation forests in the future." (p. 111)

689 Harper, J., 1985. A model for implementation of a statewide forest resource plan: A case study in Minnesota. Minnesota Dept. of Natural Resources, Division of Forestry, Planning Note. 8 pp.

Undated; probable date, 1985.

690 Hunt, F.A., 1987. National forest planning, charting the future for 191 million acres of trees and grass. American Land Forum 7(3):18-23.

An essay discussing Forest Service planning. Some history but mostly discussion of the changes brought about by the Forest and Rangeland Renewable Resources Planning act of 1974 and the Federal Land Policy and Management Act of 1976.

691 Kairiukstis, L., 1986. Integration of silviculture in regional development: Some experience of Lithuania, USSR. International Institute for Applied Systems Analysis, Working Paper WP-86-18. 15 pp.

"This paper describes an integrative approach and the practical means employed in regional (national) land use planning concerning the utilization of renewable resources and specialized forest growth in sustainable regional development in the Lithuanian SSR." (p.v)

692 Kus, J.T., 1987. High technology and timber management planning. In: Galloway, R.L. et al. Primeval improvement. pp.85-90.

Examines how developments in electronic data processing have affected forest management in Ontario.

693 Mendoza, G.A., Bare, B.B., and Campbell, G.E., 1987.

Multiobjective programming for generating alternatives: A multiple-use planning example. Forest Science 33:458-468.

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719 Rahmatian, M., 1987. Valuing public goods using the linear expenditure system approach. Journal of Environmental Management 24:225-236.

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768 Buschbacher, R.J., Uhl, C., and Serrao, E.A.S., 1987. Large - scale development in eastern Amazonia. In: Jordan, C.F., ed. Amazonian rain forests. pp. 90-99.

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782 Calanog, L.A., 1985. A study of swidden-based communities. Philippine Lumberman 31(8):22-27, 37.
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783 Capistrano, A.D. and Fujisaka, S., 1984. Tenure, technology, and productivity of agroforestry schemes. Manila, Philippine Institute for Development Studies, Working Paper 84-06. 64 pp.
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798 Tabora, P.C., Jr., 1985. Analysis and evaluation of agroforestry as an alternative environmental design in the Philippines. Ph.D. thesis, State University of New York, College of Environmental Science and Forestry; Ann Arbor, MI, University Microfilms, Int. 269 pp.

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802 Gilless, J.K. and Buongiorno, J., 1985. PELPS: Price endogenous linear programming system for economic modeling. University of Wisconsin - Madison, College of Agricultural and Life Sciences, Research Report R3329. 34 pp.
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PROFESSIONAL ACTIVITIES, EDUCATION, EMPLOYMENT

803 Bentley, W.R., 1985. Essential concepts and skills for forestry curricula in India. [New York, Ford Foundation] Discussion Paper no. 19. 32 pp.

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814 Lilley, W.D., 1987. Continuing forestry education in Maine. University of Maine, College of Forest Resources, Technical Notes no. 99; Professional Development Office Report no. 1. 10 pp.

815 Major, M., Budowski, G., and Borel, R., 1985. Manual of teaching methods for use in agroforestry intensive short courses. Turrialba, Centro Agronomico Tropical de Investigacion y Ensenanza. 72 pp.

816 Martin, J. and Huebschmann, M., 1987. How do people view forestry and foresters in Wisconsin? Timber Producer, May, 1987, pp. 34-37.
Reports results of a survey conducted in Wisconsin in 1986.

817 Matson, K. and Reed, A.S., 1987. The long and short of SAF in Minnesota. Journal of Forestry 85(6):42.

818 Rashid bin Mat Amin, A., 1984. Forestry training offered by Forestry Department Peninsular Malaysia. Malaysian Forester 47:185-190.
Training of forest workers for the forest industries is done at the Forestry School in Kepong.

819 Skok, R.A., 1987. World forestry - the professional response: Educational considerations. In: Society of American Foresters. Forests, the world, and the profession. pp. 34-38.
"In summary, the challenges in meeting international forestry needs presents difficulties for the U.S. forestry schools under current policies." (p. 38)

820 Society of American Foresters, 1986. International forestry: The role of the Society of American Foresters. Bethesda, MD, Society of American Foresters, SAF 86-09. 62 pp.

821 Stancar, J.J., 1986. The Wisconsin Forest Productivity Council. American Pulpwood Association, Technical Paper 86-P-7. 7 pp.
Paper presented at the APA-LSTD spring meeting on May 7-8, 1986 in Wisconsin Rapids, Wisconsin.

822 Stevens, M.E., 1987. International forestry: the role of the Society of American Foresters; SAF Task Force Report. In: Society of American Foresters. Forests, the world, and the profession. pp. 307-310.

823 U.S. Forest Service, Pacific Northwest Region, 1987. Tell it like it is: You and the media. U.S. Forest Service, Pacific Northwest Region, R6-10-244-87. 11 pp.

824 Zulkefli, H., 1984. Technical training program for the timber industry. Malaysian Forester 47:191-196.
Reviews the training activities of the Malaysian Timber Industry Board.

RESEARCH EVALUATION AND METHODOLOGY

825 Bengston, D.N., 1986. Agricultural research evaluation. In: Jakes, P.J. and Leatherberry, E.C., comps. Alternative approaches to forestry research evaluation: An assessment. pp. 7-12.

826 Bengston, D.N., Gregersen, H.M., and Lundgren, A.L., 1987. Planning, management, and evaluation of forestry research: An annotated bibliography with special reference to developing countries. University of Minnesota, Department of Forest Resources, Staff Paper Series no. 59. 23 pp.

827 Bengston, D.N., 1986. Research capacity in developing countries: An evaluation of public forestry research institutions. Ph.D. thesis, University of Minnesota. 205 pp.
"Factors influencing the capacity of public research institutions are examined, and a method for evaluating research capacity is developed and tested." (abstract)

828 Forest Products Research Conference, 1986, 1987. Matching utilization research with the needs of timber managers. U.S. Forest Products Laboratory. 105 pp.
Contains presentations and discussion reports from a conference held at the Forest Products Laboratory in Madison, Wisconsin, Oct. 21-23, 1986.

829 Fox, G., 1986. A framework for identifying public research priorities: an application in forestry research. U.S. Forest Service, General Technical Report NC-109. 21 pp.
"Discusses attempts to model and measure the relationship between research and development activity and the rate and nature of technological change in recent decades. Reviews efforts to model optimal research resource allocation, and presents a model for southern pine forestry research." (abstract)

830 Giese, R.L., 1987. Forestry research: An imperiled system. University of Wisconsin - Madison, School of Natural Resources, Dept. of Forestry, Staff Paper Series no.30. 16 pp.
The objective of this paper is to show that public funding, research efforts by the Forest Service, research investments by and activities of forest industry, the undergraduate pool of potential scientists and the supply of practicing forest scientists in academia have decreased considerably during the last ten years."

831 Gregersen, H. and Lundgren, A., 1986. An evaluation framework.

In: Jakes, P.J. and Leatherberry, E.C., comps. Alternative approaches to forestry research evaluation: An assessment. pp. 2-5.

832 Gregersen, H. and Risbrudt, C.D., 1986. Forestry research evaluations. In: Jakes, P.J. and Leatherberry, E.C., comps. Alternative approaches to forestry research evaluation: An assessment. pp. 21-24.

833 Gregersen, H. and Haygreen, J., 1983. Impacts of forest utilization research: An economic assessment. Final report to U.S. Forest Products Laboratory by College of Forestry, University of Minnesota. (Published in 1985 by National Technical Information Service as PB86-226248.) 97 pp. + appendices A-F.

"The economic impacts of certain major wood utilization technologies derived in part or in total from U.S. Forest Service research are evaluated." Forest Service costs for the research associated with the development of 7 technology groups are given.

834 Hilmi, H.A., 1986. World compendium of forestry and forest products research institutions. Rome, Food and Agriculture Organization of the United Nations, FAO Forestry Paper no. 71. 613 pp.

In addition to name and address of institution, lists principal fields of activity, publications and services, and official working language.

835 Jakes, P.J. and Leatherberry, E.C., compilers, 1986. Alternative approaches to forestry research evaluation: An assessment. U.S. Forest Service, General Technical Report NC-110. 32 pp.

"Reviews research evaluation techniques in a variety of fields and assesses the usefulness of various approaches or combinations of approaches for forestry research evaluation." (abstract)

836 Jeffers, J.N.R., 1986. Forest research and the computer. In: Mason, W.L. and Muetzelfeldt, R., eds. Computers in forestry. pp. 200-207.

"Developments in the transition from manual calculation to the present widespread use of computers in forest research are reviewed." (p. 200)

837 Olmstead, J., 1986. Industrial research evaluation. In: Jakes, P.J. and Leatherberry, E.C., comps. Alternative approaches to forestry research evaluation: An assessment. pp. 13-18.

838 Westgate, R.A. and Bengston, D.N., 1986. Other approaches to research evaluation. In: Jakes, P.J. and Leatherberry, E.C., comps. Alternative approaches to forestry research evaluation: An assessment. pp. 19-20.

Discusses two other approaches to research evaluation:

the peer review approach used by the Commission of the European Communities, and technology assessment.

839 Zvolanek, J., 1983. [Economic evaluation of silvicultural research.] Prace Vyzkumneho Ustavu Lesniho Hospodarstvi a Myslivosti 62:269-295.
In Czech with English summary.

TECHNOLOGY TRANSFER AND EXTENSION

840 Baumgartner, D.M., Schnepf, C., and Hanley, D., 1987. Forestry education and assistance programs for Washington forest landowners. Washington Cooperative Extension Service, EB no. 1286, revised. 13 pp.

841 Clonts, T.M., 1987. Companies offer landowner assistance programs. Forest Farmer 46(5):44.
Discusses LAPs available to nonindustrial private forest landowners.

842 Creighton, J.W., Jolly, J.A., and Laner, S., editors, 1985. Technology transfer: A think tank approach to managing innovation in the public sector. U.S. Navy; U.S. Forest Service. 95 pp.
One of the objectives of the study was to "make a general evaluation of Forest Service technology transfer effectiveness as compared to that of other public sector organizations." (p.1) Individual papers are not indexed.

843 Gunter, J.E. and McNeel, J.F., 1987. Extension forestry in Georgia. Forest Farmer 46(6):20-22.

844 Hodges, D. and Cubbage, F., 1985. Private technical assistance for private forest landowners in Georgia. TOPS 19(4):16-20.
Many timber companies in Georgia offer assistance to landowners.

845 Kurtz, W.B. and Irland, L.C., 1987. Federal policy for educating private woodland owners: A suggested new focus. National Woodlands 10(3):8-11.
The authors "examine the overall issue of the federal role in the education of PNIF owners." In particular, they discuss the role of Cooperative Extension.

846 Lentz, R.J. and Stanley, W.C., 1987. Industry and state views on landowner assistance programs. U.S. Forest Service, Cooperative Forestry, Management Bulletin R8-MB3. [2] pp.

847 Royer, J.P. and Kaiser, H.F., 1985. Influence of professional foresters on pine regeneration in the South. Southern Journal of Applied Forestry 9(1):48-52.
"Investments in pine regeneration on nonindustrial private holdings increase markedly when professional foresters

are retained by landowners." (p. 48)

848 U.S. Forest Service, 1987. Forest-Level Information Processing System (FLIPS): Economic benefit analysis: Executive report. U.S. Forest Service. 21 pp. + appendices.
Personnel on 12 national forests were questioned concerning changes in productivity resulting from the introduction of FLIPS.

ENVIRONMENTAL CONCERNS

849 Aubreville, A.M.A., 1985. The disappearance of the tropical forests of Africa. Philippine Lumberman 31(10):13-18, 36.
Reprinted from Unasylva vol. 37 no. 148.

850 Blake, R.O., 1987. An environmentalist looks at the world's forests. In: Society of American Foresters. Forests, the world, and the profession. pp. 7-12.
The author is Senior Fellow, International Institute for Environment and Development.

851 Bonus, H., 1985. [Environment protection in market economy.] Allgemeine Forst-und Jagdzeitung 156:166-169.
In German with English summary.

852 Boyd, J.M., 1987. Commercial forests and woods: The nature conservation baseline. Forestry 60(1):113-134.

853 Brown, N.J., 1987. World forests - the global challenge. In: Society of American Foresters. Forests, the world, and the profession. pp. 1-6.
A discussion of how SAF could cooperate with the United Nations Environment Programme.

854 Bruenig, E.F., 1985. Deforestation and its ecological implications for the rain forests in South East Asia. In: Davidson, J. et al., eds. The future of tropical rain forests in South East Asia. pp. 17-26.

855 Buschbacher, R.J. 1987. Deforestation for sovereignty over remote frontiers. In: Jordan, C.F., ed. Amazonian rain forests. pp. 46-57.
Subtitle: Case study no.4: Government - sponsored pastures in Venezuela near the Brazilian border."

856 Chinte, F.O., 1984. Some factors affecting forest conservation. Philippine Lumberman 30(5):18-19, 22-23.

857 Davidson, J., 1985. Economic use of tropical moist forests while maintaining biological, physical and social values. Gland, Switzerland, International Union for Conservation of Nature and Natural Resources, Commission on Ecology Papers no.

9. 28 pp.

858 Dorrell, T., 1987. Impact of conservation reserve on forestry. In: Outlook '87: Proceedings USDA Agricultural Outlook Conference, Dec. 2-4, 1986. Washington, D.C., Dept. of Agriculture. pp.399-403.

859 Jordan, C.F., editor, 1987. Amazonian rain forests: Ecosystem disturbance and recovery. New York, Springer-Verlag, Ecological Studies vol. 60. 133 pp.

On title page: "Case studies of ecosystem dynamics under a spectrum of land use - intensities." Selected papers are indexed in this issue.

860 Mahat, T.B.S., Griffin, D.M., and Shepherd, K.R., 1986. Human impact on some forests of the Middle Hills of Nepal. 1. Forestry in the context of the traditional resources of the state. Mountain Research and Development 6:223-232.

"In this paper, the interactions between political history, the traditional resources of the state, and forests are considered. Two main conclusions are drawn. First, that the deforestation of the Middle Hills is not a recent phenomenon.... Second, that deforestation was caused mainly by the joint attack of government land-use policy and subsistence agriculture." (p. 223)

861 Mahat, T.B.S., Griffin, D.M., and Shepherd, K.R., 1986. Human impact on some forests of the Middle Hills of Nepal. Part 2. Some major human impacts before 1950 on the forests of Sindhu Palchok and Kabhre Palanchok. Mountain Research and Development 6:325-334.

862 Mazurski, K.R., 1986. The destruction of forests in the Polish Sudetes Mountains by industrial emissions. Forest Ecology and Management 17:303-315.

863 Myers, N., 1986. Tackling mass extinction of species: A great creative challenge. University of California, Berkeley, College of Natural Resources, Dept. of Forestry and Resource Management, Horace M. Albright Lectureship in Conservation no. 26. 40 pp.

Includes a section on "economic values at stake".

864 Rome, A., 1986. The development and relevance of four environmental perspectives. Forem 9(2):4-8.

The author "seeks to clarify some of the terms used to describe man's relationship to the natural environment." (p. 4)

865 Srun, S.M., 1984. An overview of the world's deforestation. Philippine Lumberman 30(9):6-8, 25.

Reprinted from Canopy International August, 1983.

866 Stowe, R.C., 1987. United States foreign policy and the conservation of natural resources: The case of tropical deforestation. Natural Resources Journal 27:55-101.

The U.S. Government has failed to use the expertise of domestic agencies to address international problems.

867 Tuntawiroon, N., 1985. Public perception of tropical rain forest and its future in Thailand. In: Davidson, J. et al., eds. The future of tropical rain forests in South East Asia. pp. 123-125.

Presents a case study of the Nam Choan Dam controversy as an example of public awareness and participation to save forests in Thailand.

868 U.S. Congress, 1986. Protecting tropical forests in developing countries. U.S. Congress, 99th, 2d Session, House Report 99-476. 10 pp.

869 U.S. Congress, 1986. Protection of tropical forests. U.S. Congress, 99th, 2d Session, Senate Report 99-481. 9 pp.

870 U.S. Congress, 1986. Review the effects of acid deposition and other air pollutants on forest productivity.... Hearing before the Subcommittee on Forests... of the Committee on Agriculture, House of Representatives, 99th Congress, 2nd Session on H.R.2631 and H.R.2963, May 13, 1986. Serial no.99-27. Washington, D.C., Government Printing Office. 381 pp.

871 Walker, G.J. and Kirby, K.J., 1987. An historical approach to woodland conservation in Scotland. Scottish Forestry 41:87-98.

"This paper describes the methods used by the Nature Conservancy Council to produce inventories of ancient, long-established and semi-natural woods for Scotland and provides examples of some of the results from these surveys." (p.87)

SOCIAL SCIENCES APPLIED TO FOREST MANAGEMENT

FOREST MANAGEMENT - GENERAL

872 Kio, P.R.O. and Ekewebelan, S.A., 1987. Plantations versus natural forests for meeting Nigeria's wood needs. In: Mergen, F. and Vincent, J.R., eds. Natural management of tropical moist forests. pp. 149-176.

"for proper forest management in Nigeria there is an obvious need for balancing the ecological and economic implications of natural and artificial regeneration methods...." (p. 150)

873 Leslie, A.J., 1987. The economic feasibility of natural management of tropical forests. In: Mergen, F. and Vincent, J.R., eds. Natural management of tropical moist forests. pp. 177-198.

874 Mergen, F. and Vincent, J.R., editors, 1987. Natural management of tropical moist forests: Silvicultural and management prospects of sustained utilization. New Haven, CT, Yale University, School of Forestry and Environmental Studies. 212 pp.

Includes sections on "silvicultural systems", "silvicultural treatments", and "economic, social, and political aspects of management".

875 Papanek, F., 1986. [Contemporary problems of forestry development in Austria with special reference to forest and business management.] Lesnicky Casopis 32:49-55.

In Czech with English summary.

MULTIPLE USE MANAGEMENT

876 Ashton, P.S., 1985. Timber and minor forest product values in South East Asia. In: Davidson, J. et al., eds. The future of tropical rain forests in South East Asia. pp. 40-41.

"It is argued that the multiple uses of tropical forests must be taken into account if they are to be successfully managed and conserved...." (p. 40)

877 Clarke, H.R. and Shrestha, R.M., 1987. Renewable resource management with a backstop substitute and nonautonomous prices. Journal of Environmental Economics and Management 14:159-182.

"Policies for managing a renewable resource in the presence of a backstop substitute are analyzed. Conditions for renewable and backstop resources to be "relevant" are discussed. The extinction issue, the role of myopic decision rules and the optimality of singular arc policies are examined with nonautonomous prices." (p.159)

878 Crowell, J.B. Jr., 1987. National forests: federal asset or

liability? Forum for Applied Research and Public Policy 2:51-55.

The author believes that the national forests should contribute to the national Treasury by harvesting timber, recovering costs of recreation, managing the forest and rangeland profitably.

879 Food and Agriculture Organization, 1985. Mangrove management in Thailand, Malaysia and Indonesia. FAO Environment Paper 4. 60 pp.

Includes a chapter on "socio-economic aspects of mangrove management in Thailand". Management in this paper "is conceived as an integrated approach that should consider the sustained yield of all the products that the ecosystem may provide." (foreword)

880 Jeanes, T.G., 1987. Multiple use in the man-made forest. Forestry Chronicle 63:108-111.

A discussion of a multiple resource use plan followed by Balco Industries Ltd., a Canadian owned public company.

881 Kirby, P.C., 1987. National forests: A conservationist perspective. Forum for Applied Research and Public Policy 2:56-62.

"The Forest Service should give high priority to: High quality watershed and fisheries protection, back country recreation, undisturbed wildlife habitats, visual values, long-rotation sawtimber, and wilderness." (p. 62)

882 Krutilla, J.V., 1987. National forests: Multiple-use policies. Forum for Applied Research and Public Policy 2:42-50.

883 Leslie, A.J., 1986. Returns to the state as a forest grower. Australian Forestry 49:122-127.

"The only valid reason for the state to invest in forest growing is to provide or protect social benefits which are considered important but which would not otherwise be adequately or fairly supplied through private forestry." (p. 122)

884 Poleno, Z., 1983. [Possible direction of forest management from the point of view of society demand.] Prace Vyzkumneho Ustavu Lesniho Hospodarstvi a Myslivosti 62:219-267.

In Czech with English summary. Includes a discussion of multiple use forest management.

885 Romero, C., and Rehman, T., 1987. Natural resource management and the use of multiple criteria decision-making techniques: A review. European Review of Agricultural Economics 14:61-90.

Discusses "the potential role that multiple criteria decision-making (MCDM) techniques can play in analysing problems involving several objectives. Important applications of the MCDM techniques to planning and management problems in fisheries, forestry, water and land resources are reviewed...." (p.61)

886 Wormald, T.J., 1984. The management of the natural forests in the arid and semi arid zones of east and southern Africa. A report for ODA. Unpaged.

The countries included in this overview are: Sudan, Ethiopia, Somalia, Kenya, Tanzania, Malawi, Zambia, Zimbabwe, and Botswana. "Multipurpose management is recommended as a means of reducing the risk of degradation and desertification."

OWNERSHIP

PUBLIC LANDS

887 Boyle, B., 1984. Public lands: Past, present, and tomorrow. In: Bradley, G.A., ed. Land use and forest resources in a changing environment. pp. 74-78.

888 Minnesota Dept. of Natural Resources, Office of Planning, 1983. DNR - administered public lands: Their suitability to meet natural resource management objectives. Minnesota Dept. of Natural Resources, Office of Planning. Various pagings.

An interim report to the Legislative Commission on Minnesota Resources.

PRIVATE FORESTRY - INDUSTRIAL AND NONINDUSTRIAL

889 Donovan, D.D., 1987. Non-industrial private forest landowners of Oklahoma: State statistics and implications for forestry extension. Oklahoma State University, Cooperative Extension Service, Forestry Extension Report no.1. 15 pp.

Undated; probable date, 1987. "An attempt has been made to identify those forest landowners who control at least 40 acres of forest land in 18 eastern Oklahoma counties." (p.1)

890 Gleason, C.D., 1987. The structure of forestry. New Zealand Forestry 31(4):11-14.

The author argues that there is a case for resisting the trend in New Zealand forestry towards forest ownership and wood industry conglomerates and advocates maintaining "some diversity in size amongst the forestry sector".

891 Holmes, W.D. and Todd, J.D., 1987. Economic survey of private forestry income and expenditure Scotland 1985. University of Aberdeen, Dept. of Forestry. 40 pp.

892 Holmes, W.D. and Todd, J.D., 1987. Survey of private forestry costs in Scotland for the forest year 1985. University of Aberdeen, Dept. of Forestry. 50 pp.

893 Johnson, R., 1987. TREASURE forests - Alabama's unique approach

to managing its forest resources. In: Society of American Foresters. Forests, the world, and the profession. pp. 204-207.

Timber, Recreation, Environmental enhancement, and Aesthetics for a Sustained Usable Resource - a management assistance program offered to Alabama's nonindustrial private foresters.

894 Larsen, J., 1984. Implications for private forest management. In: Bradley, G.A., ed. Land use and forest resources in a changing environment. pp. 79-80.

895 Lonnstedt, L., 1986. [Cutting decisions by non industrial private forest owners - an analysis of case studies.] Sveriges Lantbruksuniversitet, Institutionen for Skogsteknik, Rapport 172. 93 pp.

In Swedish with English summaries. "The aim of this report is to try to give some explanations for the varying cutting intensity among non industrial private forest owners in Sweden." The decision theory was used as a conceptual framework. Detailed case studies were made of 40 NIPF owners. (abstract)

896 Roberts, J.C., Tlusty, W.G., and Jordahl, H.C., Jr., 1986. The Wisconsin private non-industrial woodland owner: A profile. University of Wisconsin, Cooperative Extension Service: Dept. of Urban and Regional Planning, Occasional Paper no. 19. 128 pp. + appendices.

897 Rudqvist, A. and Tornqvist, T., 1986. [Forestry strategies and cutting decisions among private forest owners - 40 case studies.] Sveriges Lantbruksuniversitet, Institutionen for Skogsteknik, Rapport 171. 225 pp.

In Swedish with English abstract. "The aim of this study was to analyze the process preceding cutting decisions among private forest owners." (abstract)

898 Russell, C.E., 1987. Plantation forestry. In: Jordan, C.F., ed. Amazonian rain forests. pp. 76-89.

"Case study no. 9: The Jari Project, Para, Brazil."

899 Young, R.A. and Reichenbach, M.R., 1987. Factors influencing the timber harvest intentions of nonindustrial private forest owners. Forest Science 33:381-393.

"Intentions of woodland owners to harvest timber were examined in an effort to increase understanding of the factors that influence wood production on nonindustrial private forests." (p.381)

LABOR CONSIDERATIONS - WORK STUDIES

900 American Pulpwood Association, 1986. Logging industry training needs survey report. Washington, D.C., American Pulpwood Association, Special Project 86-A-6. 12 pp.

901 Brinnen, U., 1986. [Production techniques and work environment at production of containerized seedlings.] Sveriges Lantbruksuniversitet, Institutionen for Skogsteknik, Rapport 168. 85 pp. + appendices.
In Swedish with English summary.

902 Critchlow, R.V., 1986. Lumber and wood products. In: Technology and its impact on labor in four industries. U.S. Bureau of Labor Statistics Bulletin 2263. pp. 1-16.
Discusses employment, productivity, wages and investments.

903 Economic Commission for Europe and Food and Agriculture Organization, 1987. The development of forest working techniques and the role played by the Joint FAO/ECE/ILO Committee on Forest Working Techniques and Training of Forest Workers. Timber Bulletin 39(3):1-51. (Special issue)

904 Gozdalik, M., 1986. [An analysis of potential possibilities of employment development in forestry against the background of demographic prognosis and goals of forest economy.] Sylwan 130(9):1-8.
In Polish with English summary.

905 Hensel, J.S., 1987. Workers' compensation insurance rates by states for logging. American Pulpwood Association, Technical Release 87-R-24. 2 pp.

906 Lacko, M. and Macko, F., 1985. [Analysis of the structure of the labour force and of social development in forest management of the SSR.] Lesnicke Studie no. 39. 134 pp.
In Czech with English summary.

907 Macko, F., 1986. [Results of social analysis and key-problems of social development of forestry in the Slovak Socialist Republic.] Acta Facultatis Forestalis Zvolen 28:289-300.
In Czech with English, Russian, and German summaries. A discussion of age and qualification standards of forest workers in Czechoslovakia.

908 Ruprich, J. and Kalousek, F., 1984. [Social system in forestry organization.] Acta Universitatis Agriculturae (Brno), Series C (Facultas Silviculturae) 53:217-224.
In Czech with English, Russian, and German summaries. Discusses "optimization of the personnel structure and improvement of the working and social conditions" as the social processes involved in forest management. (JR)

PROTECTION

909 Austara, O., Orlund, A., Svendsrud, A., and Veidahl, A., 1987. Growth loss and economic consequences following two years defoliation of Pinus sylvestris by the pine sawfly Neodiprion sertifer in West-Norway. Scandinavian Journal of Forest Research 2:111-119.

910 Bible, T.D. and Twardus, D.B., 1987. Damage and socioeconomic impact. In: Brookes, M.H. et al., tech. coords. Western spruce budworm and forest-management planning. pp. 17-25.
"Economic-impact assessments are made assuming an outbreak was allowed to run its course without intervention." (p. 18)

911 Brookes, M.H., Colbert, J.J., Mitchell, R.G., and Stark, R.W., tech. coords., 1987. Western spruce budworm and forest - management planning. U.S. Dept. of Agriculture, Technical Bulletin 1696. 88 pp.

912 Carter, S.W., Jr., 1987. Management strategies. In: Brookes, M.H. et al., tech. coords. Western spruce budworm and forest-management planning. pp. 27-32.

913 Cooper, A.N. and Ashley-Jones, C., 1987. Economics of fire prevention in New Zealand plantations. New Zealand Forestry 31(4):14-18.

914 deSteiguer, J.E., Hedden, R.L., and Pye, J.M., 1987. Optimal level of expenditure to control the southern pine beetle. U.S. Forest Service, Research Paper SE-263. 30 pp.
"Optimal level of expenditure to control damage to commercial timber stands by the southern pine beetle was determined by models that simulated and analyzed beetle attacks during a typical season for 11 Southern States." (abstract)

915 Donoghue, L.R., 1986. Wildfire prevention: New perspectives on an old problem. Fire Management Notes 47(3):15-18.
The author describes the Forest Service's current system of gathering fire prevention information and then discusses the new demands for such information "growing out of social change and administrative mandates in the United States." (p. 15)

916 Honea, C.R., Nebeker, T.E., and Straka, T.J., 1987. Economic evaluation of seven southern pine beetle hazard rating systems. Journal of Environmental Management 24:259-266.

917 Mackay, S., 1987. Prescribed fire and wilderness recreation: Guidelines for coordinated management. Western Wildlands 13(1):24-27.

918 McIntyre, S.K., 1987. Institutional and legal factors affecting management of western spruce budworm. In: Brookes, M.H. et al., tech. coords. Western spruce budworm and

forest-management planning. pp. 43-62.

919 Meyer, E., 1986. Evaluating arson - caused forest fires in Wisconsin, 1982-85. Fire Management Notes 47(3):22-25.

920 Milne, G.R., 1986. Economic impact of the spruce budworm outbreak in Newfoundland. Newfoundland Forestry Centre. Information Report N-X-237. 39 pp.

921 Pyne, S.J., 1984. Introduction to wildland fire: Fire management in the United States. New York, Wiley. 455 pp.

Includes sections on "fire and culture", "the administration of fire regimes", & "programs for fire management".

922 Ronde, C. de, Bohmer, L.H., and Droomer, E.A.P., 1986. Evaluation of wildfire damage in pine stands. South African Forestry Journal 138:45-50.

Guidelines for fire damage evaluation are presented.

923 Stage, A.R., Carter, S.W., Jr., and Bible, T.D., 1987. Evaluating management options. In: Brookes, M.H. et al., tech. coords. Western spruce budworm and forest-management planning. pp. 33-42.

924 Stark, R.W. and Wright, K.H., 1987. Management considerations in integrated pest management. In: Brookes, M.H. et al., tech. coords. Western spruce budworm and forest-management planning. pp. 9-15.

925 Sullivan, J., Omi, P.N., Dyer, A.A., and Gonzalez-Caban, A., 1987. Evaluating the economic efficiency of wildfire rehabilitation treatments. Western Journal of Applied Forestry 2:58-61.

"The economic efficiency criterion, which in general terms relates social benefits to project costs, is the focus of this paper." (p. 58)

926 U.S. Forest Service, 1986. National forest fire report 1985. U.S. Forest Service. 44 pp.

Includes tables for wildfire occurrence, acres burned, number of wildfires by statistical causes, area burned and damaged (dollar value).

927 VanWagner, C.E., 1986. Catastrophic losses - strategies for recovery. In: Summaries of the proceedings of the 1986 Western Forestry Conference. Portland, Western Forestry and Conservation Association. pp. 85-97.

This paper deals with "the effect of fire on timber supply, especially the effects of great fluctuations in fire occurrence." (p. 86)

PRODUCTION OF FOREST GOODS AND SERVICES

OUTDOOR RECREATION

928 Anderson, J. et al., 1986. River recreation in Washington: An initial inventory and assessment. U.S. National Park Service, Pacific Northwest Region; Washington State Parks and Recreation Commission. 141 pp.

Co-authors are: W.A. Bush, D. Canty, C. Carlson, H. Chadwick, A.S. Malbon, and A. Skutt.

929 Applegate, J.E. and Clark, K.E., 1987. Satisfaction levels of birdwatchers: An observation on the consumptive - nonconsumptive continuum. Leisure Sciences 9:129-134.

This study "provides the first data for comparison of birdwatchers with other outdoor recreationists in regard to satisfaction ratings of a recreational experience." (p. 132)

930 Baxter, M.J. and Ewing, G.O., 1986. A framework for the exploratory development of spatial interaction models: A recreation travel example. Journal of Leisure Research 18:320-336.

931 Binkley, C.S. and Mendelsohn, R.O., 1987. Recreation user fees. II. An economic analysis. Journal of Forestry 85(5):31-35.

"While the direct effect of recreation fees is to reduce use, the indirect effects will increase recreational opportunities." (p. 35)

932 Boyle, S.A. and Samson, F.B., 1983. Nonconsumptive outdoor recreation: An annotated bibliography of human-wildlife interactions. U.S. Dept. of the Interior, Fish and Wildlife Service, Special Scientific Report - Wildlife no. 252. 113 pp.

933 Brown, T.C., 1987. Production and cost of scenic beauty: Examples for a ponderosa pine forest. Forest Science 33:394-410.

"Psychophysical models of scenic beauty for an all-aged ponderosa pine area were combined with estimates of management costs and physical output values to indicate more efficient input combinations for production of scenic beauty." (p.394)

934 Clark, R.N. et al. 1984. The value of roaded, multiple-use areas as recreation sites in three national forests of the Pacific Northwest. U.S. Forest Service, Research Paper PNW-319. 40 pp.

Co-authors are: R.W. Koch, M.L. Hogans, H.H. Christensen, and J.C. Hendee.

935 Clark, R.N., 1987. Recreation management: A question of integration. Western Wildlands 13(1):20-23.

Discusses some of the concepts that can be used to determine how, when, and where recreation can be integrated with other resource uses. Two of these concepts are the Recreation Opportunity Spectrum and the Limits of Acceptable

Change.

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937 Dearden, P., 1987. Consensus and a theoretical framework for landscape evaluation. Journal of Environmental Management 24:267-278.

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938 Driver, B.L., Brown, P.J., Stankey, G.H., and Gregoire, T.G., 1987. The ROS planning system: Evolution, basic concepts, and research needed. Leisure Sciences 9:201-212.

"This paper describes the evolution of the concept of the Recreation Opportunity Spectrum (ROS) - a largely resource-based approach to providing recreational diversity." (p. 201)

939 Dustin, D.L., McAvoy, L.H., and Beck, L.A., 1986. Promoting recreationist self-sufficiency. Journal of Park and Recreation Administration 4(4):43-52.

940 Fogg, G.E., 1986. A site design process. Alexandria, VA, National Recreation and Park Association. 185 pp.

A book to guide beginning designers, park professionals and others in preparing park plans and designs. Includes sections on user demand, land use, and regional influences as well as material on site design and construction.

941 Glass, R.J. and Gustke, N., 1987. Visitor expectations, satisfactions, and views toward financial support for selected New Hampshire historic sites. U.S. Forest Service, Research Note NE-RN-334. 6 pp.

942 Gramann, J.H. and VanderStoep, G.A., 1987. Prosocial behavior theory and natural resource protection: A conceptual synthesis. Journal of Environmental Management 24:247-257.

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943 Hammitt, W.E. and Cole, D.N., 1987. Wildland recreation; ecology and management. New York, Wiley. 341 pp.

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944 Harris, C.C. and Driver, B.L., 1987. Recreation user fees. I. Pros and cons. Journal of Forestry 85(5):25-29.

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946 Keiner, S.T., 1985. The contribution of outdoor recreation to state economic development. Washington, D.C., Council of State Planning Agencies. [73] pp.

947 Loomis, J., 1987. The economic value of instream flow: Methodology and benefit estimates for optimum flows. Journal of Environmental Management 24:169-179.

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One of the conclusions drawn from this study was "that recreationists choose substitute activities somewhat similar to their original intention." (p. 83)

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950 Mathieson, A. and Wall, G., 1986. Tourism: Economic, physical and social impacts. London, Longman. 208 pp.

951 McConnell, K.E., and Sutinen, J.G., 1984. An analysis of congested recreation facilities. Advances in Applied Micro-economics 3:9-36.

The authors' basic thesis is "that the impact of changes in exogenous variables depends on the management regime in effect." (p.31)

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954 Russell, C.S., 1986. Estimating recreational benefits from soil erosion control. In: Waddell, T.E., ed. The off-site costs of soil erosion: Proceedings of a symposium held in May, 1985. Washington, D.C., Conservation Foundation. pp. 196-208.

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960 U.S. Congress, 1986. Entrance fees and resource protection for units of the National Park System. Hearing before the Subcommittee on Public Lands... Committee on Energy and Natural Resources, U.S. Senate, 99th Congress, 2d Session on S.2130 and S.2204, June 12, 1986. Washington, DC, Government Printing Office. 224 pp.

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WILDERNESS MANAGEMENT-NATURE CONSERVATION-NATIONAL PARKS

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977 Runte, A., 1987. National parks: The American experience. 2d ed., rev. Lincoln, University of Nebraska Press. 335 pp.

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"The major dilemma when dealing with livestock grazing on forested land is that typical range management concepts apply poorly in this situation." (P. 15)

989 Novak, J.L., Trimble, R., Duffy, P.A., and Hanselka, W., 1987. Analyzing the economics of brush control in South Texas using a present value of costs approach. American Society of Farm Managers and Rural Appraisers Journal 51:64-67.

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993 Bradley, G.A., editor, 1984. Land use and forest resources in a changing environment: The urban/forest interface. Seattle, University of Washington Press. Institute of Forest Resources Contribution no. 49. 222pp.

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995 Chambers, K., 1987. Urban forestry in the London Borough of Tower Hamlets - an account of the European urban forestry project sponsored by the EEC. Arboricultural Journal 11:1-14.

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996 Clawson, M., 1984. The urban/forest interface: Summary observations and research needs. In: Bradley, G.A., ed. Land use and forest resources in a changing environment. pp. 198-211.

997 Croke, K., Fabian, R., and Brenniman, G., 1986. Estimating the value of natural open space preservation in an urban area. Journal of Environmental Management 23:317-324.

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998 Czerwinski, C. and Isman, M.B., 1986. Urban pest management: Decision-making and social conflict in the control of gypsy moth in west-coast cities. Entomological Society of America, Bulletin 32(1):36-41.

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999 Hagenstein, P.R., 1984. Economics and land allocation at the urban/forest interface. In: Bradley, G.A., ed. Land use and forest resources in a changing environment. pp. 83-92.

1000 Healy, R.G., 1984. Forests in an urban civilization: Land use, land markets, ownership, and recent trends. In: Bradley, G.A., ed. Land use and forest resources in a changing environment. pp. 17-35.

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1005 Kelley, A., 1987. City trees - are they worth it? Arbor Age 7(4):12-17, 28-29.

The author discusses whether the advantages of city trees are worth the cost and suggests "a means for objective assessment of value versus cost for city trees." (p. 12)

1006 Lee, R.G., 1984. Implications of contemporary community organization and social values for forest management on the residential/wildland interface. In: Bradley, G.A., ed. Land use and forest resources in a changing environment. pp. 119-132.

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Evaluates the contributions that urban amenities, among them, urban parks, open spaces, natural and scenic resources, can make to the vitality of a community.

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1010 Moll, G., 1987. The state of our city forests. American Forests 93(5/6):61-64.

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1011 Parks, B.O., Fear, F.A., Lambur, M.T., and Simmons, G.A., editors, 1982. Urban and suburban trees: Pest problems, needs, prospects, and solutions. Michigan State University, Dept. of Entomology, Dept. of Resource Development. 253 pp.

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"This paper argues that urban forestry management, an ecological systems approach to beautification and aesthetics, should be an integral part of an overall stragegy for central city revitalization." (p. 61)

1013 Rea, L.M., Sparrow, G.W., Gupta, D.K., and Hunsaker, D., 1983. The design and management of the urban forest: A selected bibliography. Monticello, Illinois, Vance Bibliographies, Public Administration Series: Bibliography P-1292. 19 pp.

1014 Row, C., 1984. Indirect impacts and inequities in urban/forest interface economics. In: Bradley, G.A., ed. Land use and forest resources in a changing environment. pp. 96-98.

1015 Schroeder, H.W., Buhyoff, G.J., and Cannon, W.N., Jr., 1986. Cross-validation of predictive models for esthetic quality of residential streets. Journal of Environmental Management 23:309-316.

"Models for predicting the perceived attractiveness of residential streets were cross-validated using data collected independently in Ohio and Michigan communities." (p. 309)

1016 Schroeder, H.W., 1986. Estimating park tree densities to maximize landscape esthetics. Journal of Environmental Management 23:325-333.

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1017 Schroeder, H.W., 1987. Psychological value of urban trees: Measurement, meaning, and imagination. National Urban Forest Forum 7(2):5-6.

1018 Sedjo, R.A., 1984. Market and nonmarket influences in urban/forest interface conflicts. In: Bradley, G.A., ed. Land use and forest resources in a changing environment. pp. 93-95.

1019 Skinner, D.R., 1985. Community forestry plan, Amenia, North Dakota. North Dakota Forest Service. 41 pp.

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1021 Dissmeyer, G.E. and Foster, B., 1987. Some economic benefits of protecting water quality. In: Society of American Foresters. Forests, the world, and the profession. pp. 138-143.

1022 Garzon, C.E., 1984. Water quality in hydroelectric projects: Considerations for planning in tropical forest regions. Washington, DC, World Bank. World Bank Technical Paper no. 20. 33 pp.

"This paper identifies and describes the studies necessary to predict water quality changes, at an early stage of planning, in large tropical reservoirs with long retention times." (p. iii)

1023 Lugo, A.E. and Brown, S., editors, 1985. Watershed management in the Caribbean: Proceedings of the Second Workshop of Caribbean Foresters, Kingstown, Saint Vincent and Grenadines, 1984. U.S. Forest Service, Institute of Tropical Forestry. 157 pp.

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1026 Brooks, R.T., Frieswyk, T.S., and Malley, A.M., 1987. Forest wildlife habitat statistics for New Hampshire-1983. U.S. Forest Service, Resource Bulletin NE-RB-97. 107 pp.

1027 Brooks, R.T., Frieswyk, T.S., and Ritter, A., 1986. Forest wildlife habitat statistics for Maine 1982. U.S. Forest Service, Resource Bulletin NE-RB-96. 146 pp.

1028 Cumming, H.G. and Barnes, D., 1987. A place for wildlife in intensively managed forests? In: Galloway, R.L. et al. Primeval improvement. pp.126-127.

1029 Darr, D.R., and Hennemuth, R.C., 1985. Forecasting for resources in forestry and marine fisheries in the year 2000. American Statistician 39:384-392.

1030 Douglas, C.L., 1986. Management recommendations for improving wildlife habitat degraded by man in the Black Mountains, Death Valley National Monument. U.S. National Park Service/University of Nevada, Los Vegas, Cooperative National Park Resources Studies Unit. 25 pp.

1031 Fosburgh, W., 1986. Wildlife issues in the National Forest System. In: Audubon Wildlife Report 1986. New York, National Audubon Society. pp.159-173.

1032 Gray, N., 1986. Woodland management for pheasants & wildlife. North Pomfret, Vermont, David & Charles. 176 pp.

1033 Guynn, D.C., Jr. and Busch, F.A., 1987. Hunting leases for income and access control. Forest Farmer 46(5):60-62.

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1034 Johansson, P.O., Kristrom, B., and Mattsson, L., 1987. How is the willingness to pay for moose hunting affected by the stock of moose? An empirical study of moose-hunters in the county of Vasterbotten. Sveriges Lantbruksuniversitet, Institutionen for Skogsekonomi, Arbetsrapport 63. 23 pp.

1035 Kikkawa, J., editor, 1985. Wildlife management in the forests and forestry-controlled lands in the Tropics and the Southern Hemisphere. International Union of Forestry Research Organizations. 77 pp.

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1036 Maroteaux, J., 1986. [Royal forest guards and gamekeepers at Versailles: A sociological approach.] Revue Forestiere Francaise 38:573-581.

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1037 McKee, C.W., 1987. Economics of accomodating wildlife. In: Society of American Foresters. Forests, the world, and the profession. pp. 133-137.

The purpose of this paper is "to identify the economic problems and constraints associated with the assessment of wildlife habitat tradeoffs and to determine the impact of habitat enhancement on dollar returns of a typical forest management strategy." (p. 133)

1038 Minnesota Department of Natural Resources, 1985. Forestry - wildlife guidelines to habitat management: Forest, transition, prairie. 1985 revision. Minnesota Dept. of Natural Resources. 137 pp.

1039 Salo, E.O. and Cundy, T.W., editors, 1987. Streamside management: Foresty and fishery interactions. University of Washington, Institute of Forest Resources, Contribution no.57. 471 pp.

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Washington, Feb.12-14, 1986. Includes a panel discussion on the economic and social considerations of forestry and fishery management.

1040 Sorg, C.F. and Nelson, L.J., 1987. Net economic value of waterfowl hunting in Idaho. U.S. Forest Service, Resource Bulletin RM-14. 18 pp.

1041 Thomas, J.W. and Bell, E.L., 1987. Wildlife habitat in managed forests: What to think about while chopping. Western Wildlands 13(1):4-7.

"The opportunity to satisfy both wood production and wildlife habitat objectives is obvious." (p. 7)

1042 Thomas, J.W., 1985. Toward the managed forest - going places that we've never been. Wildlife Society Bulletin 13:197-201.

Talk given by the author to the Canadian Forestry and Wildlife Management Symposium.

1043 Wood, G.W. et al., 1985. Compatibility of even-aged timber management and red-cockaded woodpecker conservation. Wildlife Society Bulletin 13:5-17.

Co-authors are: L.J. Niles, R.M. Hendrick, J.R. Davis, T.L. Grimes. "This work examines changes in clan territory size, habitat use, and reproductive success before and after commercial clear-cutting within documented clan territories." (p. 5)

1044 Wood, G.W., 1986. A primer on wildlife management considerations for the southern national parks. U.S. National Park Service, Southeast Region, Research/Resources Management Report SER-81. 250 pp.

WOOD PRODUCTION

1045 American Pulpwood Association, 1986. 1986 wood fiber forecast for South. Jackson, MS, American Pulpwood Association, Special Project 86-A-8. 12 pp.

1046 Binkley, C.S., 1987. When is the optimal economic rotation longer than the rotation of maximum sustained yield? Journal of Environmental Economics and Management 14:152-158.

1047 Bludovsky, Z., 1983. Economic presumptions for realization of forest intensification measures. Communicationes Instituti Forestalis Cechosloveniae 13:219-230.

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1048 Blyth, J.E. and Smith, W.B. 1986. Pulpwood production in the Lake States by county, 1985. U.S. Forest Service, Research Note NC-338. [4] pp.

1049 Blyth, J.E. and Smith, W.B., 1987. Pulpwood production in the North-Central Region by county, 1985. U.S. Forest Service, Resource Bulletin NC-101. 26 pp.

Shows Michigan, Minnesota, and Wisconsin production by species for each county. Presents 1985 production and receipt data for Illinois, Iowa, and Missouri, and shows four production classes by county.

1050 Cubbage, F.W. and Gunter, J.E., 1987. Conservation reserves. Journal of Forestry 85(4):21-27.

Among the provisions of the Food Security Act of 1985 (better known as the 1985 farm bill) is the Conservation Reserve Program. "At the current signup rate, 2 million acres of pine plantations could be added to the southern timberland base. This acreage could significantly augment southern timber supplies and improve growth-drain ratios." (p. 27)

1051 DeWald, S.J., 1987. Utilization and production of Nebraska timber resources. In: Trees for Nebraska Conference, 10th, 1987. Proceedings. pp.27-29.

1052 Donald, D.G.M., 1986. South African nursery practice - the state of the art. South African Forestry Journal 139:36-47.

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1053 Entrican, A., 1986. Influence of delivered prices of forest produce on silvicultural practice in a developing forest economy. New Zealand Forestry Council, Working Paper no. 6. 31 pp.

A report and statistical update of Alex Entrican's 1960 paper with a commentary by S.D. Richardson.

1054 Fisher, R.F., 1987. The domesticated forest: Large investment, large return. Western Wildlands 13(1):8-11.

The author believes that "many acres of private and public land in the mountainous West are highly productive and could easily support domesticated forestry." "The domesticated forest does not fit well into multiple-use management." (pp. 8-9)

1055 Franklin, C., 1987. Biological, silvicultural, and economic options in forest management. In: White, J.L., ed. Managing and marketing the changing timber resource. p.95-98.

1056 Gisz, P.L. and Bruce, I.A., 1985. Economic aspects of growing trees. In: Think trees, grow trees. Canberra, Australian Government Publishing Service. pp. 143-153.

Growing trees in Australia.

1057 Hutchins, C.C., Jr., 1987. Southern pulpwood production, 1985. U.S. Forest Service, Resource Bulletin SE-94. 28 pp.

1058 Johnston, W.F., 1986. Manager's handbook for balsam fir in the North Central States. U.S. Forest Service, General Technical Report NC-111. 27 pp.

1059 Jones, J.R., 1987. Economic benefits of timber and productive forest land in British Columbia. Forestry Chronicle 63:112-118.

The purpose of this paper is to describe the Association of British Columbia Professional Foresters' approach to assessing the economic benefits of using forest land for timber production.

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"A brief history of the timber industry is given and the need for plantation forestry is explained. Concern is expressed that the natural forest is not being managed to accomodate conservation needs and other values but rather is being used only for wood production." (p. 91)

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1063 McDonald, P.M. and Fiddler, G.O., 1986. Release of Douglas-fir seedlings: growth and treatment costs. U.S. Forest Service, Research Paper PSW-182. 9 pp.

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1067 Phillips, T.D., 1984. Regional advantages in producing container-grown nursery stock. Mississippi State University, Department of Agricultural Economics, Staff Papers Series no. 66. 13 pp.
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1068 Price, C., 1987. Further reflections on the economic theory of thinning. Quarterly Journal of Forestry 81:85-102.

1069 Remis, J. and Sojak, D., 1986. [Industrial plantations of conifers and broadleaved hardwoods in Slovakia.] Lesnicke Studie no. 41. 245 pp.
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"This study investigates three regeneration regimes using the net present value criterion and mill delivered cost per cord." (p. 168)

1071 Risbrudt, C.D. and McDonald, S.E., 1986. How effective are tree improvement programs in the 50 states? U.S. Forest Service, Research Paper NC-276. 6 pp.
The authors "examined the genetic tree improvement programs of the 50 states and State and Private Forestry's contribution to those programs." They "estimated the impact of these programs on timber growth on nonindustrial private lands and their economic efficiency." (p. 1)

1072 Salleh, M.N., and Baharudin, J., 1985. Silvicultural practices in Peninsular Malaysia. In: Davidson, J. et al., eds. The future of tropical rain forests in South East Asia. pp. 85-90.
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1073 Shepherd, K.R., 1986. Plantation silviculture. Dordrecht, Martinus Nijhoff. 322 pp.

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1075 Stewart, H.T.L. and Salmon, G.R., 1986. Irrigation of tree plantations with recycled water. 2. Some economic analyses. Australian Forestry 49:89-96.

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with a guide to making informed decisions about the use of marginal land." It compares "on an after-tax basis by soil series, the expected annual return from growing corn and soybeans with the equal annual equivalent return from planted loblolly pine." (p.3)

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1086 Bludovsky, Z., 1983. [The effect of economic mechanism on the use of logging fund.] Prace Vyzkumneho Ustavu Lesniho Hospodarstvi a Myslivosti 63:365-384.

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1091 Howard, A.F., 1987. Modeling the cost and profitability of timber harvesting with cable skidders. Northern Journal of Applied Forestry 4:87–92.
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Research Paper PNW-306. 29 pp.
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1100 Smith, C.R., Johnson, J.D., and Riley, L.F., 1986. Economics of precommercial thinning in jack pine. In: The yield advantages of artificial regeneration at high latitudes. U.S. Forest Service, General Technical Report PNW-194:34-45.
"The purpose of this paper is to set out a range of criteria for evaluating the economics of thinning for sawlog production in overly dense jack pine...." (p.34)

1101 Wellburn, G.V., 1987. Harvesting the future crop. Forestry Chronicle 63:103-105.
This paper is divided into three parts: timber supply, logging machines and systems, and institutional and administrative constraints.

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"Results of an opinion survey of southern wood procurement managers and pulpwood dealers about the business criteria, communications attributes, and status of roundwood pulpwood procurement."

1103 Erdle, T.A. and Wang, E.C., 1986. Wood supply implications of a larch reforestation program. In: 1986 Larch Workshop, Fredericton, N.B., Oct.14, 1986. Canadian Forestry Service. pp.145-164.
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Co-authors are: J.E. Brickell, A.W. Green, J.F.C. Hyde III, D.H. Jackson, T.L. Raettig, E.G. Schuster and W.L. Wood.

1105 Jobstl, H.A., 1986. [Timber prices and income tax as decisive factors in roundwood supply behavior of private forest owners in Austria.] Centralblatt fur das Gesamte Forstwesen 103:129-161.
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1112 Craig, G.A., 1987. Developing a microcomputer program for purchasers of national forest timber. Western Journal of Applied Forestry 2:62-64.

1113 Daniels, B.J. and Daniels, S.E., 1986. Below-cost timber sales: affecting community stability? Forem 9(2):9-12.

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1114 Kelley, C.R., 1987. Timber sales contract. Forest Farmer 46(8):6-8.

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1115 Krutilla, J.V., 1985. Observations on below-cost timber sales. Draft of a paper prepared for Forest Economics and Policy Program of Resources for the Future. 25 pp.

1116 Minnesota Division of Forestry, 1987. Public stumpage price review, fiscal year 1986 edition. Minnesota Dept. of Natural Resources, Division of Forestry. [7] pp.

1117 U.S. Forest Service, 1987. Timber Sale Program Information Reporting System: Final report to Congress. U.S. Forest Service, Policy Analysis. 130 pp.

1118 U.S. General Accounting Office, 1987. Timber program: A cost accounting system design for timber sales in national forests. U.S. General Accounting Office. 44 pp.

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1119 Williams, J.T., 1982. Timber sale planning: Considering future opportunities for present decisions. Ph.D. thesis, University of Minnesota. 93 pp.

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1120 Anderson, E.T. and Bagger, D.W., editors, 1986. Washington State forest products trade directory, 1987-1988 edition. Tacoma, Washington, The Evergreen Partnersip. 120 pp.

Provides general information relating to the forest products industry in Washington followed by a directory of lumber and wood producing companies; pulp, paper and paperboard producers; services such as wholesalers & brokers; and information on ports and transportation services.

1121 Anderson, W.C., 1987. Technical changes that solved the southern pine lumber industry's small-log problem. Forest Products Journal 37(6):41-45.

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1122 Atkinson, W.A., 1984. Managing the urban/forest interface: A view from forest industry. In: Bradley, G.A., ed. Land use and forest resources in a changing environment. pp. 189-197.

Presents the problems Crown Zellerbach encounters in trying to run a forestry business in the midst of urban pressure.

1123 Bilek, E.M., 1986. An evaluation of equity and non-equity organizational arrangements used by U.S. wood-based firms in international operations. Ph.D. thesis, University of Minnesota. 137 pp.

"This study focuses on the forms of organization used by U.S. wood-based companies in their foreign operations." (p. 1)

1124 Blyth, J.E. and Smith, W.B. 1986. Veneer industry and timber use, North Central Region, 1984. U.S. Forest Service, Resource Bulletin NC-99. 16 pp.

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1126 Brown, J.A. and Harold, M.R., 1986. An assessment of the Tennessee-Tombigbee area forest products industries. Tennessee Valley Authority, Division of Land and Economic Resources, Technical Note B60. 12 pp. + appendices.

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R.L. et al. Primeval improvement. pp.5-10.
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"In contrast to the first paper (52/1), which is mostly dealing with theoretical models on managerial costing .... this paper is meant as a manual for managers of small and medium-sized sawmills in estimating the production cost of the sawnwood produced in their mills." (p.iii)

1130 Ellefson, P.V., 1986. Economic structure of the eastern hardwood industry: Past and future trends. In: Robertson, D. and White, J.L. Eastern hardwoods: the resource, the industry, and the markets. pp. 31-41.

1131 Ellefson, P.V., 1987. U.S. wood-based industry: Economic structure in a worldwide context. In: Cahn, R.W., ed.: Advances in materials science and engineering. Oxford, Pergamon. 24 pp.
Preprint from a publication in press.

1132 Ellefson, P.V., 1987. Upper Great Lakes wood-based industrial landscape: Changing structure implies changing investment opportunities. Paper presented at FPRS conference, "A Clear Look at Timberland Investment: Options for the Potential Investor and Current Owner", Milwaukee, WI, April, 1987. 4 pp. + fig. + tables.

1133 Espe, C. and Sutton, P., editors, 1986. PPI international factbook. San Francisco, Miller Freeman Publications. 256 pp.
A compilation of figures taken from 25 years of annual review issues of the journal Pulp and Paper International. Includes a world overview of the pulp and paper industry, information on imports and exports, and on the world's top 100 pulp and paper companies.

1134 Floriot, J.L., Kliemann Neto, F.J., and Kopittke, B.H., 1987. [A study of the forest products industry of the State of Santa-Catarina (Brazil) from the historical and industrial perspectives.] Revue Forestiere Francaise 39:131-144.
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1135 Food and Agriculture Organization, Forestry Dept., 1985. Industrial charcoal making. FAO Forestry Paper no.63. 133 pp.
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Organization of the United Nations. 179 pp. + appendix.

1137 Gaines, L.L., 1985. Economic comparison of coal and wood for industrial steam generation. In: Energy from Biomass and Wastes IX: Symposium papers. Chicago, Institute of Gas Technology. pp. 1265-1285.

1138 Hill, D.S., editor, 1987. Directory of Oregon forest products: A guide for purchasers of Oregon wood products and services. Oregon State Dept. of Forestry, Market Development Program; Oregon Economic Development Dept., International Trade Division. 105 pp. + maps.

Includes information on softwood lumber producers, hardwood lumber producers, panel/veneer producers, roundwood/export sources, etc.

1139 Indian Pulp and Paper Technical Association, 1986. Productivity in [the] paper industry. IPPTA Convention Issue 1986. 118 pp.

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1140 Johnson, D., 1985. The short-term economic effects of environmental constraints on forest industries. Review of Marketing and Agricultural Economics 53:149-156.

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1141 Jones, K.D. and Zinn, G.W., 1986. Forests and the West Virginia economy. 5. The economic importance of forest-based industries in West Virginia. West Virginia University, Agricultural and Forestry Experiment Station, Bulletin 691, vol. 5. 46 pp.

1142 Jones, R., Keage, P.L., and Tedesco, R.L., 1981. The energy costs of forest harvest processes: An analysis of an Australian native forest system producing pulpwood from two typical forest types. University of Tasmania, Environmental Studies Working Paper no.10. 44 pp.

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1144 Kaufman, E., 1987. U.S. particleboard industry comeback continues. Wood and Wood Products 92(5):70-72,74,76,78.

1145 Kiljunen, K., 1986. Growth of third world forest industry: Possible impact on Finland. Silva Fennica 20:159-179.

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1146 Kocman, J. and Syrovatka, K., 1983. Economic problems regarding the production and utilization of forest chips in the Czech Socialist Republic. Communicationes Instituti Forestalis Cechosloveniae 13:231-250.

1147 Kolenka, I., 1986. [Experimental prediction of the development of a forest enterprise.] Acta Facultatis Forestalis Zvolen 28:255-272.

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1148 Kosstrim, H.M. and Himmelblau, D.A., 1985. Economic feasibility of a small-scale wood gasification to methanol plant. In: Energy from Biomass and Wastes IX: Symposium papers. Chicago, Institute of Gas Technology. pp. 1305-1341.

1149 Lamb, F.M. and Wengert, E.M., 1986. Models for determining hardwood lumber drying costs. In: Robertson, D. and White, J.L. Eastern hardwoods: the resource, the industry, and the markets. pp. 86-90.

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1151 Losser, S.V., 1986. Current trends and developments in the wood component parts industry. In: Robertson, D. and White, J.L. Eastern hardwoods: the resource, the industry, and the markets. pp. 55-61.

1152 Lynn, E.S., 1987. The Tax Reform Act of 1986: Boom or bane for the paper industry? Pulp and Paper 61(4):162-163.

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1153 Maki, W.R., Schallau, C.H., Foster, B.B., and Redmond, C.H., 1986. Louisiana's forest products industry: Performance and contribution to the state's economy, 1970 to 1980. U.S. Forest Service, Research Paper PNW-RP-371. 22 pp.

1154 Martinello, F., 1987. Substitution, technical change and returns to scale in British Columbian wood products industries. Applied Economics 19:483-496.

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1155 McCurdy, D.R. and Ewers, J.T., 1987. Trends in the United States pallet industry, 1980 to 1985. Forest Products Journal 37(6):46-48.

1156 McKeever, D.B., 1987. The United States woodpulp industry. U.S. Forest Service, Resource Bulletin FPL-RB-18. 29 pp.

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1159 Minnesota Forest Industries, Inc., 1987. Minnesota's forest products industry: Economic impact analysis. Duluth, Minnesota Forest Industries, Inc. [4] pp.

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1161 Nicholson, W.E., 1986. An analysis of regional log and lumber production costs in Canada, with projections to 2030. Ph.D. thesis, Oregon State University; Ann Arbor, MI, University Microfilms International. 173 pp.

1162 Nodine, S.K. and Lawrence, W.B., 1986. Directory of forest industries in South Carolina 1986. Clemson University, Extension Service, Bulletin 125, revised. 80 pp.

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1164 Organisation for Economic Co-operation and Development, 1986. The pulp and paper industry in the OECD member countries, 1983. Paris, OECD. 99 pp.

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1169 Slinn, R.J., 1987. Pulp imports and the U.S. pulp & paper industry. Paper presented to the 31st Annual Pulp & Paper Conference, Kalamazoo, Mich., Mar. 19, 1987. 7 pp. + 13 pp. appendix.

1170 Sloan, P. and Heit, M., 1987. Directory of secondary wood-using industries in Alberta - 1986. Canadian Forestry Service, Northern Forestry Centre; Alberta Dept. of Forestry, Lands and Wildlife. 105 pp., 42 pp.

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1171 Stickney, G.H., 1986. Computers in the British Columbia sawmill industry. In: Mason, W.L. and Muetzelfeldt, R., eds. Computers in forestry. pp. 186-191.

1172 Suchsland, O. and Woodson, G.E., 1987. Fiberboard manufacturing practices in the United States. U.S. Department of Agriculture, Agriculture Handbook no. 640. 263 pp.

Includes a chapter on the history of the fiberboard industry and industry statistics. The final chapter is on board properties and markets.

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1174 United Nations Industrial Development Organization and International Labour Office, 1986. Small-scale paper-making. United Nations Industrial Development Organization, UNIDO/ILO Technical Memorandum no.7; UNIDO/IS.602. 159 pp.

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1175 Wheeldon, H.A.W., 1986. The use of computers in operational planning and control in a large British forestry company. In: Mason, W.L. and Muetzelfeldt, R., eds. Computers in forestry. pp. 42-47.

1176 Zinn, G. and Jones, K.D., 1987. Forests and the West Virginia economy. Volume 6: Growth potential and development prospects for West Virginia's timber-based industries. West Virginia Agricultural and Forestry Experiment Station, Bulletin 691, vol.6. 33 pp.

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NON-INDUSTRIAL FOREST PRODUCTS

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